Monitor Memorandum of Understanding (Version 3.0) between The United States Environmental Protection Agency and COMPANY NAME

I. Common Agreements and Principles

- A. This is a voluntary agreement between COMPANY ("ENERGY STAR® Partner" or "Partner") and the United States Environmental Protection Agency ("EPA"), by which COMPANY NAME joins the ENERGY STAR Program. The terms of this MOU shall apply to monitors sold by Partner under its own brand name(s).
- B. ENERGY STAR Partner and EPA agree that the primary purpose of the ENERGY STAR Program is to promote the manufacturing and marketing of energy-efficient equipment, thereby potentially reducing combustion-related pollution.
- C. ENERGY STAR Partner and EPA agree that the use of energy-efficient equipment may also increase profits and competitiveness for businesses.
- D. ENERGY STAR Partner and EPA agree that the ENERGY STAR Program may also improve or enhance equipment's useful lifetime, customer satisfaction, and overall product quality.
- E. ENERGY STAR Partner and EPA agree that publicizing the ENERGY STAR Program is important to demonstrate the following: the concern of Partner for the environment, the vitality of the free enterprise system in reducing costs, and the capability of voluntary programs to achieve environmental goals.
- F. ENERGY STAR Partner and EPA agree that maintaining public confidence in the ENERGY STAR Program is critical to achieving the shared goals of Partner and EPA.
- G. ENERGY STAR Partner and EPA agree that the integrity of the ENERGY STAR Program and the ENERGY STAR logo depends on consumer recognition of the ENERGY STAR logo as a means of identifying products in a particular market that are more energy-efficient than conventional products. Therefore, ENERGY STAR Partner and EPA will work together to revise the technical specifications as necessary. ENERGY STAR Partner agrees that EPA can initiate a review of compliance guidelines at any time, if necessary.
- H. ENERGY STAR Partner and EPA agree that membership in the ENERGY STAR Program is essential to the cooperative effort to achieve the shared goals stated above.

II. Definitions

- A. <u>Monitor</u>: For purposes of this MOU, a monitor is defined as a cathode-ray tube (CRT), flat panel display (e.g., a liquid crystal display) or other display device and its associated electronics. This definition is intended primarily to cover standard monitors designed for use with computers. For purposes of this MOU, however, the following may also be considered a monitor: mainframe terminals, and physically separate display units.
- B. <u>First Low-Power or "Sleep" Mode</u>: Sleep mode is defined as the reduced power state that the monitor model enters after receiving instructions from a computer or via other functions. A blank screen and reduction in power consumption characterize this mode. The monitor returns to full-power mode upon sensing a request from a user.
- C. <u>Second Low-Power or "Deep-Sleep" Mode</u>: Deep-Sleep mode is defined as the second reduced power state that the monitor enters after receiving instructions from a computer or via other functions. A significant reduction in power consumption characterizes this mode. The monitor returns to full-power mode upon sensing a request from a user.

III. Entry into Force and Duration

- A. Both parties agree that any previously executed MOU between the parties on the subject of ENERGY STAR-compliant computers, integrated computer systems and monitors shall be terminated effective June 30, 1999, except as provided for in Section III.D below.
- B. Both parties agree that as technologies and markets change, it may become desirable to revise the specifications and/or product categories contained in this MOU. ENERGY STAR Partner and EPA agree to work together to revise the specifications and/or product categories in the MOU if and when changes in technology and/or markets make these revisions desirable and necessary. ENERGY STAR Partner and EPA also agree that a reasonable effort should be made to consider the ideas and opinions of all ENERGY STAR Monitor Partners and other interested parties when revising the specifications contained in this MOU.
- C. Both parties agree that the terms of this MOU shall become effective on July 1, 1999, although Partner may choose, at its discretion, to implement the terms of this MOU prior to this date.
- D. Both parties agree to the following schedule for phasing in the new specifications contained in this MOU:
 - 1. Monitors that Partner first ships *before July 1, 1999* may be qualified under Section IV.B of the ENERGY STAR Computer and Monitor MOU (Version 2.0) as amended. Once such models are qualified as ENERGY STAR-compliant, they may continue to bear the ENERGY STAR logo until the models are phased out of the market (i.e., the new specifications will not apply retroactively to products qualified previously).

- 2. Monitors that Partner first ships *on or after July 1, 1999* must be qualified under the specifications outlined in Section IV.D of this agreement.
- E. Both parties agree that this agreement may be terminated by Partner or EPA at any time, and for any reason, with no penalty. However, the parties agree that termination for non-compliance would occur only in accordance with the procedures set out in Section VII of this agreement.

IV. ENERGY STAR Partner's Responsibilities

A. Reading and Understanding Logo Use Guidelines

ENERGY STAR Partner affirms that it has read, understands, and will abide by the Guidelines for Proper Use of the ENERGY STAR Name and International Logo. (Attachment A)

B. Appointment of Liaison

Partner agrees to appoint a responsible company representative as liaison with EPA for the ENERGY STAR Program and to notify EPA within one month of any change in liaison responsibility. (Attachment B)

C. Measuring and Testing Equipment

Power consumption of a monitor shall be measured and tested from the AC source to the unit. Partner must measure a representative sample of the configuration of all the models that it ships to the customer, but the partner does not need to consider power consumption changes that may result from component additions made by the user after sale of the product. See EPA's testing procedure guidelines for more information.

Partner is responsible for only applying the ENERGY STAR logo to its monitors that meet the ENERGY STAR criteria. Partner shall self-certify those products that it determines are compliant. Partner may submit compliant product information to EPA on a voluntary basis using the product information form, if it wishes to have such products included in the ENERGY STAR Product Listing.

D. Product Qualification for the ENERGY STAR Logo

ENERGY STAR Partner agrees to introduce one or more models of monitors that meet the specifications outlined below.

An ENERGY STAR-compliant monitor shall have the capability to automatically enter two successive low-power modes. In the first low-power "sleep" mode, the monitor shall consume 15 watts or less after receiving instructions from a computer or via other functions. If the monitor continues to be idle, upon instructions from the CPU or via other functions, it shall enter a second low-power "deep sleep" mode. An ENERGY STAR-compliant monitor in this second low-power mode shall consume 8 watts of electricity or less. Monitors that have the capability to proceed automatically from active mode to a low-power mode of 8 watts or less comply with the power consumption requirements of this agreement. Upon resumption of user activity, the monitor shall automatically return to

full operational capability. It is recommended that for activity not initiated by the user, the monitor will remain in its low-power mode.

If the monitor includes a USB hub/ports, it shall be tested without any devices or an upstream cord connected to the hub/ports.

E. Customer Education

1. Identification of Qualifying Products in the Marketplace

ENERGY STAR Partner must ensure that consumers have a quick and easy method of determining which of its products are ENERGY STAR compliant. To achieve this goal, EPA recommends that Partner place the ENERGY STAR logo on all qualified monitor models, their packaging, and product-related materials such as brochures, manuals, and advertisements. EPA also recommends that Partner place the ENERGY STAR logo on all product-related material published on Partner's Web site(s).

2. Product Literature

It is important that consumers understand the power-management feature of their equipment. Accordingly, Partner shall provide general information to users regarding the ENERGY STAR features of the monitor. This information might include the following: a description of the method for changing the power-management settings or default times, a description of the ENERGY STAR Program, and a discussion of the savings associated with using the power-management feature. Partner may determine the best manner through which to disseminate this general information to users. Examples of acceptable approaches include user's manual, on-line tutorial or Internet Web site, special brochures included in the shipping box, etc. Brochures and advertisements shall be worded to avoid misleading statements. See Guidelines for Proper Use of the ENERGY STAR® Name and International Logo. (Attachment A)

F. Employee Education

Partner agrees to make available general information about the ENERGY STAR Program to all of its employees whose jobs are relevant to the development, marketing, sales, and service of ENERGY STAR-compliant monitors.

G. Information Sharing

At EPA's request, Partner will attempt to locate customers who have profited from the program and are willing to share information about performance and savings, as well as employees who have contributed in its success. This customer- or employee-supplied information is to be without reference or endorsement of specific Partner, specific products, or other supply sources.

H. Endorsement

ENERGY STAR Partner agrees that it will not construe, claim, or imply that its participation in the Program constitutes EPA approval, acceptance, or endorsement of anything other than Partner's commitment to the Program. ENERGY STAR Partner understands that participation in the ENERGY STAR Program does not constitute EPA endorsement of ENERGY STAR Partner

or its products. In addition, since the EPA will not officially approve any individual test reports submitted by Partner, Partner may not include misleading statements in product literature or sales presentations that imply a product is approved or certified by the EPA, e.g., Partner shall not make claims such as "This monitor is EPA-approved," "This monitor is EPA-certified," or any similar statement intended to convey an EPA endorsement.

I. Voluntary Actions

ENERGY STAR Partner agrees that the activities it undertakes connected with this MOU are not intended to provide services to the federal government and that Partner will not submit a claim for compensation to any federal agency.

V. EPA's Responsibilities

A. Appointment of Liaison

EPA agrees to designate a single liaison point for the ENERGY STAR Program, and to notify Partner within one month of any change in liaison responsibilities. Please send signed MOU and other correspondence to this person. (Attachment B)

B. Product Testing

EPA agrees to accept the product certification by the Partner when qualifying ENERGY STAR-compliant products. This certification may be self-determined by the Partner or determined by an independent third party. While this is a self-certifying process, EPA reserves the right to conduct tests on products bearing the ENERGY STAR logo from either the open market or other available sources. EPA may request Partner to voluntarily provide products to be tested by EPA.

C. Consumer Acceptance

EPA agrees to make an effort to encourage consumer acceptance of products introduced under this agreement and bearing the ENERGY STAR logo.

D. Public Recognition

EPA agrees to provide Partner with recognition for its public service in protecting the environment by performing analyses about the pollution prevented by corporate participants and providing this and other program information to appropriate news media sources for publication.

E. Consumer Education

EPA agrees to promote energy-efficient equipment and to inform consumers about the ENERGY STAR Program and ENERGY STAR logo by writing articles and/or cooperating with the news media by sharing information, where appropriate.

F. Public Service Advertisements

EPA agrees to work with Partner independently and/or in conjunction with other Partners to coordinate the placement of advertisements to promote energy-efficient equipment, educate

consumers about the ENERGY STAR Program and logo, and provide Partner with due recognition for its public service in protecting the environment.

VI. Use of the ENERGY STAR Logo

A. Associating Logo with Qualifying Models

It is the responsibility of the Partner to associate EPA, the ENERGY STAR logo and name, and the ENERGY STAR Program only with those specific models that qualify under the terms and conditions of this MOU. See Guidelines for Proper Use of the ENERGY STAR® Name and International Logo. (Attachment A)

B. ENERGY STAR Materials

EPA agrees to loan Partner, at no charge, materials from which Partner can reproduce the ENERGY STAR logo.

C. Referring to the ENERGY STAR Logo

When the Energy Star logo is used, Partner agrees that it shall be accompanied by the following statement: "As an Energy Star" Partner, [Company] has determined that this product meets the Energy Star guidelines for energy efficiency." When the Energy Star logo is applied directly to the product or product packaging, Partner may place this statement in the user's manual. See Guidelines for Proper Use of the Energy Star Name and International Logo. (Attachment A)

D. Registered Marks

ENERGY STAR Partner understands that the ENERGY STAR® name and the ENERGY STAR logo are registered marks of the United States Environmental Protection Agency, and are subject to the provisions of Title 15, Chapter 22, United States Code, the various state laws applicable to trademarks, and this Memorandum of Understanding. As such, the Partner shall note this registered status, as appropriate. This includes: (a) expressing the ENERGY STAR name in all capital letters (It is also appropriate to use a slightly larger point size for the first letter of each word, e.g., twelve point for the E and S, and ten point for the other letters.), and (b) including the registered symbol,®, each time the ENERGY STAR name or logo appears in a brochure, poster, advertisement, or other document (i.e., ENERGY STAR®). The registered mark statement "ENERGY STAR is a U.S. registered mark" may also be used in addition to the registered symbol to indicate the registered status of the mark. See Guidelines for Proper Use of the ENERGY STAR® Name and International Logo. (Attachment A)

E. Endorsement

Under no circumstances shall the ENERGY STAR name or logo be used in a manner that would imply EPA endorsement of the Partner, its products or its services.

F. Altering Logo

ENERGY STAR Partner agrees not to alter the ENERGY STAR logo except in the ways described in the Guidelines for Proper Use of the ENERGY STAR® Name and International Logo. (Attachment A)

G. Termination of Agreement

If either EPA or Partner terminates this Agreement, Partner will no longer be entitled to apply the ENERGY STAR logo to newly manufactured products, and will no longer make reference to the ENERGY STAR Program so as to construe continuing involvement in the program. Any products bearing the logo that have been shipped by the Partner prior to program termination, and are no longer in the Partner's possession (e.g., products on display or inventoried by retail stores or distributors) may continue to bear the logo.

VII. Conflict Resolution

A. Good Faith Principle

Each party agrees to exercise good faith as a general principle for resolving conflicts under the ENERGY STAR Office Equipment Program.

B. Notification of Problems

Both parties agree to informally notify each other if any problems or issues arise under the ENERGY STAR Office Equipment Program and to work together to provide maximum public confidence in the program.

C. Procedure for Addressing Non-Compliant Products

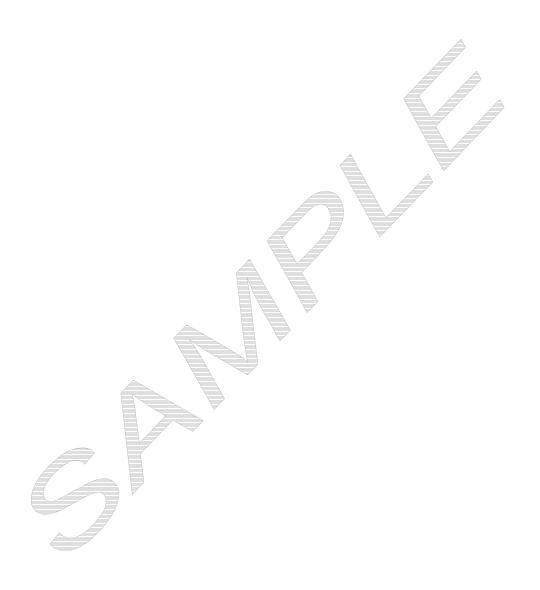
- 1. If EPA receives information that one or more monitor models claimed by Partner as ENERGY STAR-compliant may not meet all of the terms of this MOU, or if EPA believes Partner is using the ENERGY STAR logo improperly, then EPA will immediately notify Partner and attempt to address and resolve the problem informally.
- 2. If these informal discussions do not produce a mutually agreeable resolution, EPA shall notify Partner in writing that Partner shall be terminated from the ENERGY STAR Office Equipment Program unless it undertakes the specific corrective actions sought by EPA. Partner agrees to reply to EPA in writing within 20 business days of receiving EPA's letter. At that time, Partner shall agree to do one of the following: (a) undertake in a timely and effective manner, the corrective actions sought by EPA; or (b) voluntarily terminate this agreement. If Partner does not respond to EPA's letter within 20 business days, or responds but does not agree to either (a) or (b), then this agreement is terminated.

D. Notification in Writing

If Partner believes that EPA is not meeting all of its commitments, Partner agrees to formally notify EPA in writing. EPA agrees to respond in writing within 20 business days of receiving Partner's letter. At that time, EPA will do one of the following: (a) undertake the corrective actions sought by Partner, or (b) explain why such corrective actions cannot be undertaken.

VIII. Freedom of Information Act and Confidential Business Information

Both parties understand that information provided by Partner to EPA will be treated pursuant to EPA's public information regulations under 40 Code of Federal Regulations, Part Two.



* * * *

The undersigned hereby execute this Memorandum of Understanding on behalf of their respective parties. The signer of this agreement affirms that he/she has the authority to commit Partner to participation in the ENERGY STAR Office Equipment Program.

For the U.S. Environmental Protection Agency (EPA):

Signature:	Date:
Name: Paul M. Stolpman Title: Director, Office of Atmospheric P	rograms
For COMPANY NAME: Signature:	Date:
Name:	
Title:	

ATTACHMENT A

ENERGY STAR® Logo Use Guidelines





U.S. ENVIRONMENTAL PROTECTION AGENCY ENERGY STAR® Program Washington, DC 20460

Guidelines for Proper Use of the ENERGY STAR® Name and International Logo

(*Updated April 1, 1998*)

The ENERGY STAR® Name and International ENERGY STAR Logo, "the Logo" (see figure #1), are registered marks of the EPA. As such, the Name and Logo may only be used in accordance with the following guidelines and the Memoranda of Understanding (MOU) signed by Partners in the ENERGY STAR program. Please distribute these guidelines to those who will be responsible for preparing ENERGY STAR materials on your behalf.

ENERGY STAR Logo Figure #1

EPA oversees proper use of the ENERGY STAR Name and Logo. This includes monitoring the use of the marks in the marketplace, and directly contacting those organizations that are using them improperly or without authorization. Consequences to Partners of misusing the marks may include the termination of the Partner's participation in the ENERGY STAR program. Please also note that under several federal statutes, including 19 USC § 1526 and 19 USC § 1595(a), products imported into the U.S. using the marks improperly or without authorization are subject to possible seizure and forfeiture by the U.S. Customs Service.

I. INTRODUCTION

The ENERGY STAR Name may be used for **general educational purposes**. The Name may be displayed when describing the ENERGY STAR program, such as in a special educational brochure, newsletter, annual report, or other article that provides the details of the program and the program's requirements. (See Section II below for more information.)

The Logo may be used as a **product label** to designate specific products that meet the specifications contained in the ENERGY STAR MOUs. (See Section III below for more information.)

ENERGY STAR is a U.S. registered mark.

II. GENERAL EDUCATIONAL USE OF THE ENERGY STAR NAME

Partners and other entities authorized by the EPA are allowed to include the ENERGY STAR Name in general educational or informational materials that discuss the ENERGY STAR program. This includes utility bill stuffers, promotional material, brochures, newsletters, annual reports, speeches, posters, advertisements, articles, product sales materials and packaging, Internet/world wide web documents, and other materials in print or electronic media, etc.

III. USE OF LOGO AS A CERTIFICATION MARK

A. Using the Logo on Product Labels

The Logo is a certification mark and may only be used to certify specific products that have been determined to meet the ENERGY STAR program requirements. For those specific products, the Logo may be used directly on the product or on materials associated with the product, such as packaging or product inserts. In order to maintain the integrity of the Logo, and the credibility of the ENERGY STAR programs, it is imperative that this basic rule not be broken.

Only ENERGY STAR Partners may use the Logo in connection with a certified product. Each ENERGY STAR Partner has signed an MOU making it responsible for the proper use of the Logo. This includes its own use of the Logo, as well as use by its authorized representatives, e.g., ad agencies, dealers, etc. Therefore, the Partner should make available these Logo use guidelines to any party that would be preparing materials on the Partner's behalf.

B. Using the Logo in Product Advertisements

When preparing print advertisements or brochures, the Logo should be placed on or directly adjacent to the compliant product. If only one product is pictured in the advertisement (and that product is compliant) the Logo may be placed anywhere on the page. But if multiple products are pictured, the Logo should be placed only next to those products which are compliant. The Logo may not be placed along the bottom or side of the advertisement next to other general icons unless every product pictured in the advertisement is ENERGY STAR compliant.

If the Logo is used in a general advertisement for a product line where only certain models are compliant, the Partner should include language that clarifies the situation (e.g., "The [product model name] meets the ENERGY STAR® requirements") or the Partner may include specific language under each of the compliant models (e.g., include a bullet point "ENERGY STAR® compliant" in a list of product attributes).

C. Using the Logo When Not Referencing a Specific Product

The only time the Logo may be used without making reference to a specific product is when it is used to inform the public of the certification purpose of the mark. For example, a Partner may display the Logo in a brochure, manual, or other document along with a statement that reads, "Look for the Logo on our products. This means that the product meets the ENERGY STAR guidelines for energy efficiency." Similar statements include the following, "The symbol for energy efficiency" or "Placed on products that meet the energy-efficiency guidelines set by the EPA." In addition, under no circumstances shall the Name or Logo be used in a manner that would imply EPA endorsement of the company, its products, or its services.

D. Logo Disclaimer Statement

As described in all of the MOUs, when the Logo is used by a Partner in connection with a product or its advertising, it shall always be accompanied by the following statement: "As an ENERGY STAR® Partner, (*your company name*) has determined that this product meets the ENERGY STAR® guidelines for energy efficiency." The disclaimer statement must accompany the Logo, but it does not have to appear side-by-side; the phrase may be placed where normal explanatory information is found. For example, if the Logo is placed:

- On print advertisements or posters: The disclaimer statement may be placed with other standard trademark and registration information at the bottom of the advertisement where other companies' products are recognized (e.g., "Product X is a registered trademark of XYZ Corp.; As an Energy Star® Partner, XYZ Corp. has determined that this product meets the Energy Star® guidelines for energy efficiency.").
- On brochures and manual: The phrase must appear with the first use and/or in the front section with the recognition of other trademarks.
- **Directly on a product**: When the Logo is applied directly to the product, Partner may place this statement in the user's manual or on the nameplate.
- On the product packaging: The Partner is not required to include the disclaimer statement on the packaging; rather, the Partner may use the disclaimer statement in the user's manual, or in other collateral sales and marketing materials.

As a general rule:

- The type must be visible -- at a minimum, 2.5 point type size.
- The disclaimer statement may be translated into languages appropriate for the intended end market of the product.

IV. REPRODUCTION OF THE LOGO

The Logo is available in color and in black and white on disk in two graphic formats: **.EPS** (**Encapsulated Postscript**) and **.BMP** (**Bitmap**). These files are for distribution to your customer graphics department. The .EPS version can be used on both PC and Mac computers. (.TIF format is also available upon request.)

As described in all of the ENERGY STAR MOUs, the Logo shall not be altered, cut apart, or separated in any way. Following are more detailed guidelines:

- The Logo may be resized, but please maintain the same proportions.
- The colors of the 4-color Logo must be reproduced faithfully (4-color process).
- The 4-color Logo may be reproduced in black and white shading.
- The simplified outline or "line art" Logo may be reproduced in the following manner:
 - black or white on solid colors
 - one-color version in the color of your choice
 - two-color version, with colors from the 4-color version, e.g., blue and yellow, green and blue, yellow and blue.

V. REGISTERED MARK

As noted above, the ENERGY STAR Name and Logo are registered marks of the EPA. When using the ENERGY STAR Name or Logo in communications and marketing materials, you must adhere to the following:

- When referring to the ENERGY STAR program or its Partners, the ENERGY STAR Name must always be expressed in capital letters. It is also appropriate to use a slightly larger point size for the first letter of each word, e.g., twelve point for the E and S, and ten point for the other letters ENERGY STAR.
- The registered status of the marks must be indicated by including the registered symbol (®) *each time* the ENERGY STAR Name or Logo appears in a brochure, advertisement, poster, product packaging, etc. (i.e., ENERGY STAR®). (Please note that in *EPA-developed* materials where the phrase ENERGY STAR is used repeatedly, such as the Logo use guidelines, the registered symbol will only appear once so as not to distract the reader.)

-AND-

The registered mark statement "ENERGY STAR is a U.S. registered mark" may also be used in addition to the registered symbol above to indicate the registered status of the mark. Similar to the disclaimer statement, the registered mark statement may be placed where normal explanatory information is found (e.g., at the bottom of an advertisement or poster, at the bottom of the relevant page in a manual or brochure, or on the product packaging).

VI. OTHER ENERGY STAR LOGOS

It is likely that you have seen other versions of the Logo in the marketplace. These logos are either obsolete or for use with other ENERGY STAR programs.

The Logo (see Figure 1) is the *only* logo that Partners should use in connection with their products that are sold internationally. This version of the Logo does not include any text or acronyms. Please call EPA if you need a diskette copy of the Logo mailed to you.

Attached you will find a chart that may be helpful in determining the correct way you should display the logo. It also displays the logos that are either for use with other ENERGY STAR programs or obsolete.

VII. ADDITIONAL QUESTIONS REGARDING THE USE OF THE LOGO

ENERGY STAR Hotline

In the U.S. call toll-free: 1-888-STAR-YES (1-888-782-7937)

Outside of the U.S. call: 202 775-6650

Fax: 202 775-6680

ENERGY STAR Internet Web Site: www.energystar.gov

LOGO USE CHART WITH EXPLANATIONS FOR USE

Logo	Program	Terms and Conditions
onergy	ENERGY STAR® Logo for use in all of the ENERGY STAR Labeling programs, EPA and DOE shall also use in public information materials.	For use by Partners on products or on materials associated with the product (i.e., packaging, product inserts, print advertisements or brochures). (See Section III, part B of the "Guidelines" for details.)
	*Program participants can use either	Also on checklists/product reporting forms, toolkits or marketing materials for Partners' use that explain the meaning and function of the logo.
energy DOE	logo. Program participants who manufacture products that are sold internationally must use only the Logo that does not contain the U.S. agency acronyms. (Top Figure)	When the Logo is used by Partners in connection with a product or its advertising, it <u>MUST</u> always be accompanied by the following statement: "As an Energy Star® Partner, (company) has determined that this product meets the Energy Star® guidelines for energy efficiency." (See Section III, part B of the "Guidelines" for details.)
ENERGY STAR® Logo with Slogan for use by EPA, DOE and others (NGOs, governmental agencies, etc.) in explaining what the ENERGY STAR label means.	for use by EPA, DOE and others (NGOs, governmental agencies, etc.) in explaining	For use with material explaining the environmental and economic claims. At a minimum, the material must provide the information given below:
	"Using products with the ENERGY STAR® label can save energy. Saving energy reduces air pollution and lowers utility bills."	
		Uses include: public information materials. Never to be used on products.
EPA CHERGY SAVING THE EARTH. SAVING YOUR MONEY.	OBSOLETE	NEVER
ENERGY STEP POLLUTION PREVENTER	OBSOLETE	NEVER



ENERGY STAR® Logo Use:

How to avoid the most common mistakes in promotional or educational materials

U.S. ENVIRONMENTAL PROTECTION AGENCY ♦ U.S. DEPARTMENT OF ENERGY

The ENERGY STAR Logo was created to aid consumers in identifying those products which meet ENERGY STAR specifications for energy-efficiency. In an effort to maintain the integrity of the logo and provide consumers with a clear, consistent message, we have created this quick reference sheet. The purpose of which is to illustrate the four most common mistakes made when using the logo and explain how to avoid them.

Example #1: "...not providing an explanation of the logo."











As an ENERGY STAR®
Partner, (company) has
determined that this product
meets the ENERGY STAR®
guidelines for energy
efficiency.

PROBLEM: A current version of the logo has been used (any of the above), but there is no explanation of the logo's meaning in the piece. If consumers do not understand the logo's message, then the ability of the logo to inform and attract them is seriously compromised. In order to maximize its effectiveness, the logo must be accompanied by an explanation.

SOLUTION: The logo can be used with one of the above captions or a caption providing a similar message. The caption can be placed next to the logo, at the bottom of the page, or incorporated into the text of the piece. At a minimum, the text must establish the link between the logo and energy efficiency (see lefthand caption).

Example #2: "...positioning the label inappropriately."

COMPLIANT PRODUCT



NON-COMPLIANT PRODUCT



NON-COMPLIANT PRODUCT

COMPLIANT PRODUCT



PROBLEM: The logo has been placed too close to a product that does not meet ENERGY STAR specifications. This can mislead consumers and it diminishes the value of the logo. The purpose of the logo is to help consumers recognize those products which meet the highest energy-efficiency standards. If the logo is associated with products that are noncompliant, its meaning will be lost.

SOLUTION: The logo must be linked to the qualifying products. This can be accomplished by placing the logo in a less ambiguous position. If the position cannot be changed, then the link must be made through the text (see Example #1).

If you have any questions regarding logo use, or you require an updated version of the logo, please call Thane Gaylor of ICF Inc., at (202) 862-2974 or e-mail at TGaylor@icfkaiser.com

Example #3: "...using an old or out-of-date version of the logo."

- DISCONTINUED -PLEASE DO NOT USE

- CURRENT VERSIONS -











One of these three logos accompanied by an explanatory caption

PROBLEM: The above logos are out-of-date and need to be replaced. The ENERGY STAR Programs are a joint venture between the U.S. EPA and the U.S. DOE. Any logo that refers to the EPA exclusively is not valid. Also, the EPA has discontinued use of the "Pollution Preventer" slogan.

SOLUTION: If you need an updated logo, please contact your ENERGY STAR Program contact or your original source for the logo. If you are unsure about where to acquire an updated logo, please contact Thane Gaylor of ICF Inc., at (202) 862-2974, or via e-mail at TGaylor@icfkaiser.com

Example #4: "...misleading wording in the ad."



HVAC Dealer





Ask for Heating & Cooling Equipment with the ENERGY STAR® Logo, the Symbol for Energy Efficiency.

Or text like:

"...the EPA and DOE have joined together to bring you a financial package called ENERGY STAR."

Or text like:

"We Sell (product type) With the ENERGY STAR Logo, the Symbol for Energy Efficiency."

"Find Out How Much You Can Save With High-Efficiency Equipment With the ENERGY STAR Logo."

PROBLEM: The added caption and text make false implications regarding the nature of the program. Neither EPA or DOE can provide financial assistance to consumers, nor can they endorse specific products or companies. Also, individual dealers are not trained or certified by either agency under the ENERGY STAR Programs.

SOLUTION: Any captions or text that refer to the logo must not misrepresent the programs. The logo should only be associated with compliant products and the key parts of the ENERGY STAR message. Neither the Programs, the EPA, nor the DOE can endorse products or companies, or provide any form of financial assistance.

ATTACHMENT B

Please complete and return with the signed Memorandum of Understanding.

EPA Contact:

Mailing Address	Overnight Delivery Address:
Andrew Fanara	Andrew Fanara
Manager, ENERGY STAR Office Equipment	Manager, ENERGY STAR Office Equipment
U.S. EPA	U.S. EPA
Mail Code 6202J	501 3 rd Street, N.W.
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Washington, DC 20460	Phone: (202) 564-9019
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ATTACHMENT C

TEST CONDITIONS FOR ENERGY STAR® COMPLIANCE MEASUREMENT FOR MONITORS

In order to reduce confusion and increase consistency, the following protocol should be followed when measuring power consumption of monitors for compliance with the ENERGY STAR Monitor MOU.

Outlined below are the minimum test conditions that should be established when performing the power measurement. These are necessary in order to ensure that ENERGY STAR compliance is based on common characteristics of monitor models.

A description of the test conditions and a discussion of testing equipment can also be found below.

I. TEST CONFIGURATION

The monitor should be tested as shipped. If it includes any USB Hub/Ports, no devices or an upstream cord should be connected to the Hub/Ports when the monitor is being tested.

II. TEST CONDITIONS

Line Impedance: < 0.25 ohm Total Harmonic Distortion: < 5%

Input AC Voltage: 115 VAC RMS +/- 5V RMS

Input AC Frequency: 60 Hz +/- 3 Hz

Ambient Temperature: 25 deg. C +/- 3 deg. C

III.TESTING EQUIPMENT

The goal is to accurately measure the true power consumption² of the monitor. This necessitates the use of a true RMS wattmeter. There are many models to choose from, but manufacturers will need to exercise care in selecting an appropriate model. The following factors should be considered when purchasing a meter and setting up the actual test.

¹ If products will be sold in Europe or Asia, testing should also be performed at the appropriate machine-rated voltage and frequency. For example, products destined for European markets might be tested at 230 V and 50 Hz.

²True power is defined as the product of the voltage, current and the power factor (volts x amps x power factor), and is typically reported as Watts. Apparent Power is defined as the product of voltage and current (volts x amps) and is usually expressed in terms of VA or volt-amps. The power factor for equipment with switching power supplies is always less than 1.0, so true power is always less than apparent power.

Crest Factor³

Monitors that contain switching power supplies draw current in a waveform different from typical sinusoidal current. While virtually any wattmeter can measure a standard current waveform, it is more difficult to select a wattmeter when irregular current waveforms are involved.

It is critical that the wattmeter selected be capable of reading the current drawn by the monitor without causing internal peak distortion (i.e., clipping off the top of the current wave). This requires a review of the meter's crest factor⁴ and of the current ranges available on the meter. Better meters will have higher crest factors, and more choices of current ranges.

When preparing the test, the first step should be to determine the peak current (amps) associated with the monitor being measured. This can be accomplished using an oscilloscope. Then a current range must be selected that will enable the meter to register the peak current. Specifically, the full scale value of the current range selected multiplied by the crest factor of the meter (for current) must be greater than the peak current reading from the oscilloscope.

For example, if a wattmeter has a crest factor of 4, and the current range is set on 3 amps, the meter can register current spikes of up to 12 amps. If measured peak current is only 6 amps, the meter would be satisfactory. The other concern to be aware of is that if the current range is set too high in order to register peak current, it may lose accuracy in measuring the non-peak current. Again, with more current range choices and higher crest factors manufacturers will get better results.

Frequency Response

Another issue to consider when selecting a wattmeter is the frequency response rating of the meter. Electronic equipment that contains switching power supplies causes harmonics (odd harmonics typically up to the 21st). These harmonics must be accounted for in power measurement, or the power consumption data will be inaccurate. Accordingly, EPA recommends that manufacturers purchase wattmeters that have a frequency response of at least 3 kHz. This will account for harmonics up to the 50th, and is recommended by IEC 555.

Resolution

Manufacturers should choose a meter that can provide resolution of 0.1 W.

³ The crest factor for a sinusoidal 60 Hz current waveform is always 1.4. The crest factor for a current waveform associated with a monitor containing a switching power supply will always be greater than 1.4 (though typically no higher than 8). The crest factor of a current waveform is defined as the ratio of the peak current (amps) to the RMS current (amps).

⁴ The crest factor of a wattmeter is often provided for both current and voltage. For current, it is the ratio of the peak current to the RMS current in a specific current range. When only one crest factor is given, it is usually for current. An average true RMS wattmeter has a crest factor in the range of 2:1 to 6:1.

Accuracy

Catalogues and specification sheets for wattmeters typically provide information on the accuracy of power readings that can be achieved at different range settings.

Calibration

To maintain their accuracy, wattmeters should be calibrated with a standard that is traceable to the U.S. National Bureau of Standards (NBS).

Continuing Verification

This testing procedure (protocol) describes the method by which a single unit may be tested for compliance. An ongoing testing process is highly recommended to ensure that products from different production runs are in compliance with the MOU. A model may qualify as ENERGY STAR-compliant if testing indicates that 95 percent of the units sold under this model name/number will meet the specifications contained within the MOU.